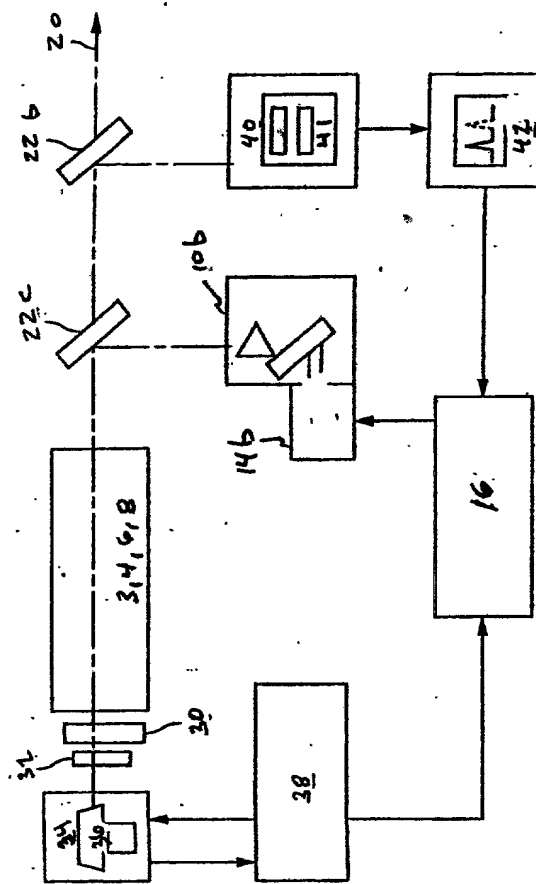


Figure 1



Scheme of the laser system including the apparatus and processing for absolute wavelength calibration

- 3, 4, 6, 8 laser chamber, resonator, gas cell, power supply
- 34 wavelength calibration tool containing absorbing element
- 38 signal processing and driving source for gas cell
- 16 main processing and data recording
- 106 line narrowing and tuning block
- 14b motor drive for wavelength shift
- 42 wavelength monitoring display for wavelength
- 22b, 22c beam splitters
- 31 resonator mirror
- 20 narrow-band output beam
- 36 polarizer
- 36 gaseous element

FIG. 2

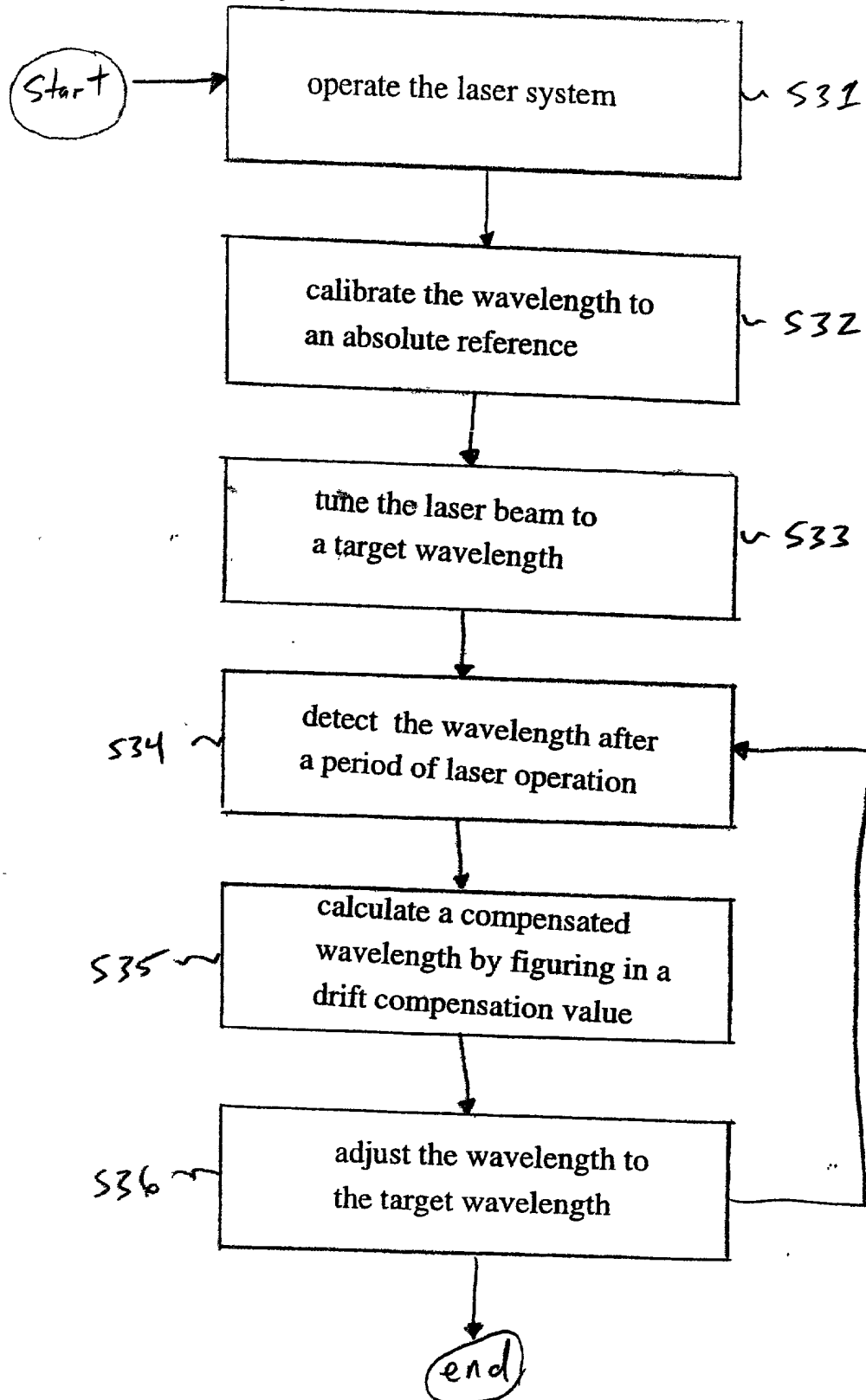


Figure 3

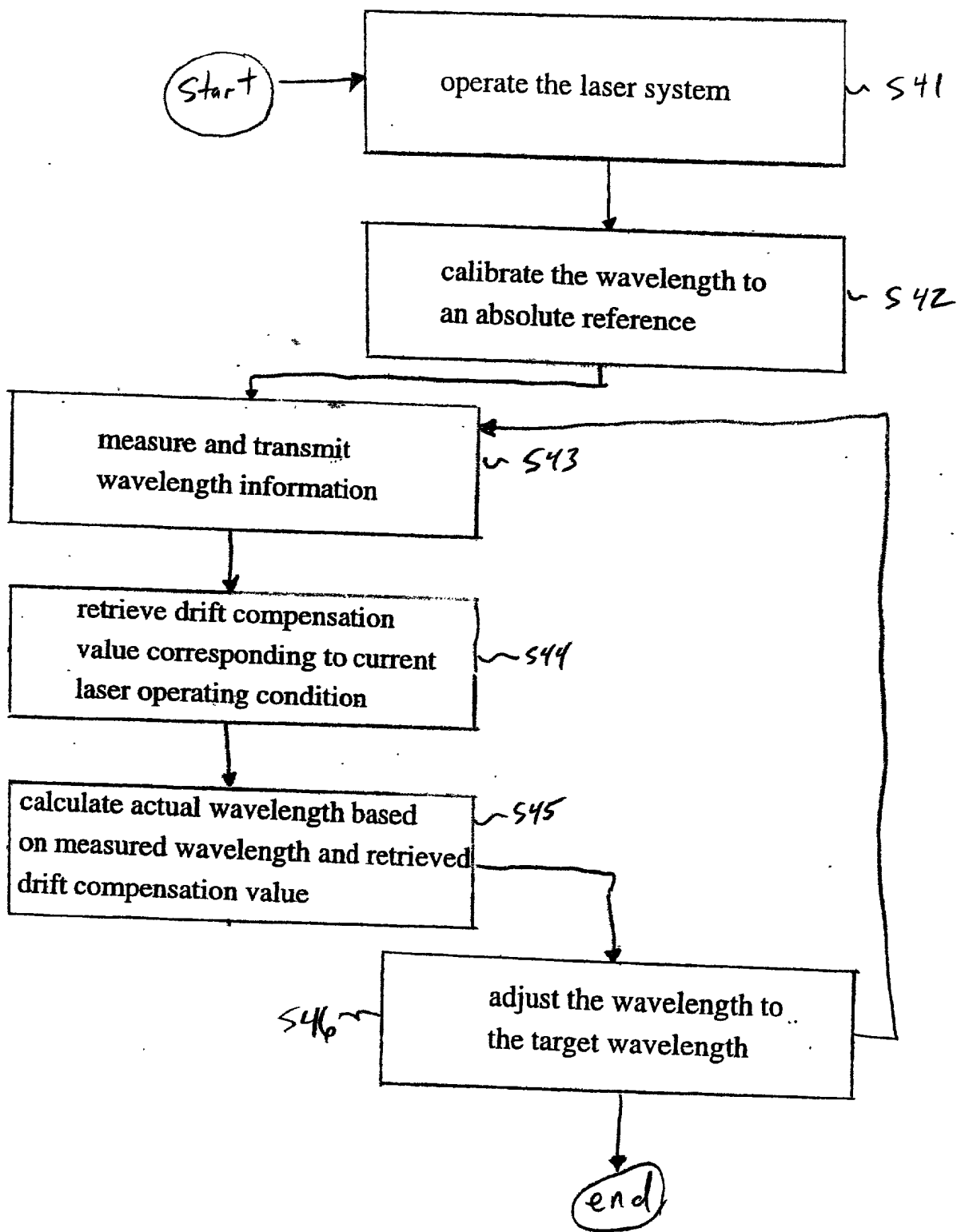


Figure 4

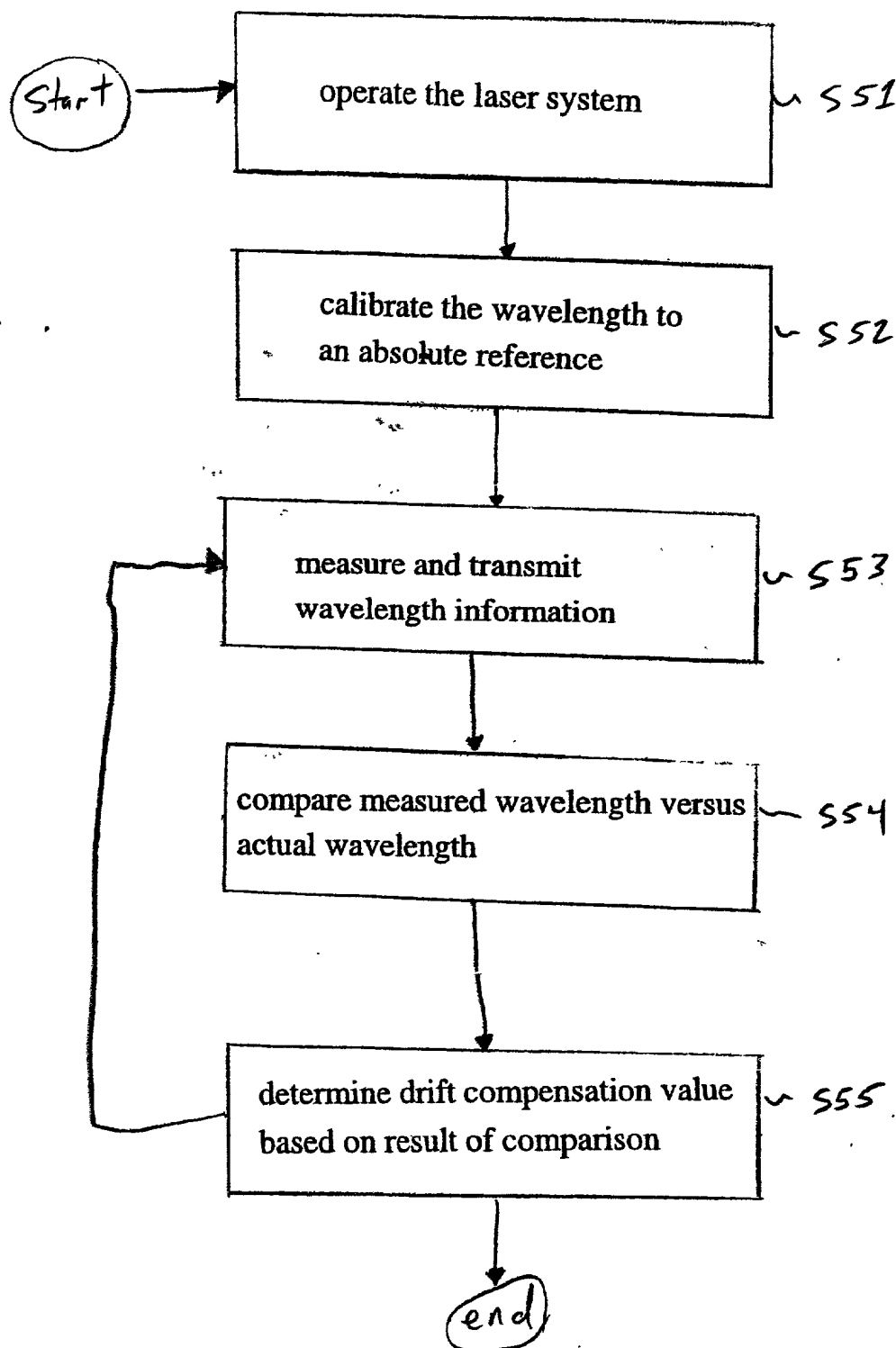


Figure 5

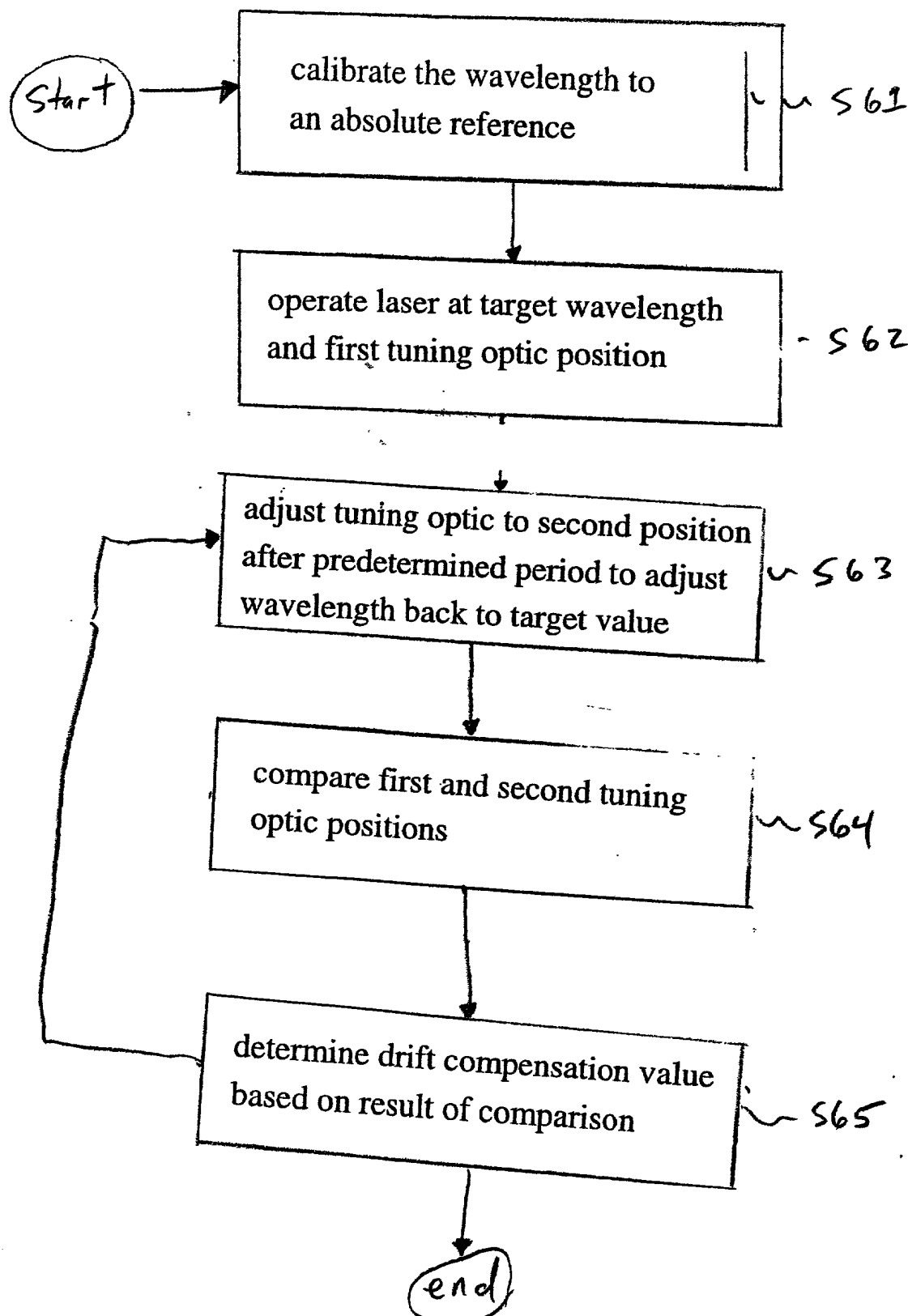


Figure 6

[illegible]

Wavelength	center	dist. from	axis	6463	6480	6481	6487	6488	6504	6502	6505	6514
Fe	6464	-0.01	-0.01	0	0	0	-0.01	-0.03	0	0	-0.01	0
Fe	6464	-0.02	-0.01	0	0	0	-0.01	-0.03	0	0	-0.01	0
Fe	6464	-0.03	-0.01	-0.05	-0.05	-0.05	-0.02	-0.05	-0.07	-0.05	-0.03	-0.01
Fe	6464	0	-0.07	-0.08	-0.04	-0.1	-0.03	-0.12	-0.13	-0.01	-0.08	-0.03
Fe	6464	0.01	-0.02	0	0	-0.04	-0.02	-0.14	-0.13	-0.03	-0.01	-0.1
Fe	6464	0	-0.07	-0.05	-0.02	-0.1	-0.02	-0.18	-0.17	-0.05	0	-0.18
Fe	6464	0.01	0.03	0.03	-0.07	-0.18	0.08	-0.08	-0.13	-0.12	0	-0.17
Fe	6464	-0.01	0.01	0.01	-0.14	-0.2	0.08	-0.17	-0.22	-0.3	-0.07	-0.23
Fe	6464	-0.04	0.05	0.07	-0.04	-0.26	0.12	-0.18	-0.21	-0.18	0.08	-0.23
Fe	6464	-0.05	0.03	0.03	-0.03	-0.05	-0.01	-0.02	-0.05	-0.01	-0.03	-0.03
Fe	6464	0.01	0.05	0.08	0.04	0.08	0.01	-0.02	0	-0.02	0.05	-0.01
Fe	6464	-0.01	-0.05	-0.02	-0.05	-0.05	0	-0.04	-0.04	-0.02	0.03	-0.03
Fe	6464	0.01	0.13	0.08	-0.05	-0.08	0.11	0.1	0.04	-0.07	0	-0.01
Fe	6464	-0.11	-0.07	-0.02	-0.07	-0.04	-0.01	-0.09	-0.08	-0.08	-0.07	-0.03
Fe	6464	-0.13	0.01	0.12	-0.13	-0.15	0.1	-0.06	-0.15	-0.2	-0.1	-0.23
Fe	6464	-0.15	0.01	0.12	-0.13	-0.15	0.1	-0.06	-0.15	-0.2	-0.1	-0.23

Figure 7